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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/624,169		07/21/2003	Shuji Imai	35919	6364
116	7590	09/08/2004		EXAMINER	
PEARNE	7		PELHAM, JOSEPH MOORE		
1801 EAST 9TH STREET SUITE 1200				ART UNIT	PAPER NUMBER
CLEVELAND, OH 44114-3108				3742	

DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/624,169	IMAI ET AL.	1000				
Office Action Summary	Examiner	Art Unit					
	Joseph M Pelham	3742					
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet with	n the correspondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicat - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however, may a repion. 5, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT y statute, cause the application to become ABA	oly be timely filed (30) days will be considered timely HS from the mailing date of this co NDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
•	This action is non-final.						
3) Since this application is in condition for a		rs, prosecution as to the	e merits is				
/ · · ·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		,					
4)⊠ Claim(s) 1-19 is/are pending in the applic	cation.						
4a) Of the above claim(s) is/are wi							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-19</u> is/are rejected.			,				
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction	and/or election requirement.						
Application Papers							
9) The specification is objected to by the Ex	aminer.						
10)⊠ The drawing(s) filed on <u>03 November 200</u>		objected to by the Exam	niner.				
Applicant may not request that any objection							
Replacement drawing sheet(s) including the			FR 1.121(d).				
11) The oath or declaration is objected to by							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for fo	oreign priority under 35 U.S.C. §	119(a)-(d) or (f).					
a)⊠ All b)☐ Some * c)☐ None of:							
1.⊠ Certified copies of the priority docu	uments have been received.	•					
2. Certified copies of the priority doct	uments have been received in Ap	plication No					
3. Copies of the certified copies of th	e priority documents have been r	eceived in this National	Stage				
application from the International E							
* See the attached detailed Office action for		eceived.					
Attachment(s)	_						
1) Notice of References Cited (PTO-892)		ımmary (PTO-413) /Mail Date					
 Notice of Draftsperson's Patent Drawing Review (PTO-93) Information Disclosure Statement(s) (PTO-1449 or PTO/Paper No/s)/Mail Date 7/21/03 		formal Patent Application (PTC	O-152)				

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Claim Rejections - 35 USC § 112

Claims 1-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claim language presently uses somewhat awkward English, so that the scope of the claims is unclear. The claims should be rewritten in colloquial English.

Claim Rejections - 35 USC § 103

Claims 1-3, 5-8, 13-16, 18, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. 4880952 (US'952) in view of U.S. Pat. 4460630 (US'630)

Referring to Fig. 9, and col. 4, lines 15-20 especially, US'952 discloses a top steel plate 36, conventionally and hence inherently stainless, with heater 29, self-cleaning 40 and enamel 39 layers, the latter conventionally a porcelain enamel. US'952 does not explicitly disclose a back side heater plate, a porcelain enamel glaze containing a frit with Al, Fe, Ni, Cu, Cr, Ag, Bronze, or Ti, or a metal oxide catalyst.

US'630 discloses, at Figs. 1-3, col. 5, line 54, through col. 6, line 25, and col. 7, lines 50-60, discloses a porcelain enamel glaze 2, 2'containing a frit with Al and/or Ti, and a metal oxide catalyst layer. It would have been obvious to utilize the layer structure of US'630 in the oven of US'952, since US'630 teaches such to enhance durability.

Claims 4 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over US'962 in view of US'630, as applied to claims 1-3, 5-8, 13-16, and 18 above, and further in view of U.S. Pat. 6429161 (US'161).

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The claims differ from US'962 in view of US'630 only in calling for a single layer combining the recited components. However, US'161, at Col. 1, line 32, through col. 2, lines 31, a single self-cleaning layer combining frit and metal components. It would have been obvious to combine the self-cleaning components of US'962 in view of US'630 in a single layer to simplify production.

Claims 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over US'962 in view of US'630 and US'161, as applied to claims 1-8 and 13-18 above, and further in view of U.S. Pat. 4283614 (US'614).

The claims differ from US'962 in view of US'630 and US'161 in calling for a perforated back "collection plate" and fan, with fluorine resin or the previously recited catalyst coating.

Referring to Fig. 1 and col. 6, line 57, through col. 7, line 3, US'614 discloses a removable perforated back "collection plate" and fan, with the previously recited catalyst coating. It would have been obvious to adapt the back plate and fan of US'614 to the oven of US'962 in view of US'630 and US'161 to enhance heating uniformity and remove oily accumulations. Moreover, it has long been well known to use a removable fan cover plate, a modification rendered obvious by the need for convenient cleaning.

Conclusion

The Examiner urges Applicants to review the prior art cited but not applied when responding to this Office action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph M Pelham whose telephone number is 703-308-1709. The examiner can normally be reached on M-F 7:30 AM to 4:00 PM.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER